

**Microsemi Corp.**  
The diode experts



**1N5802  
thru  
1N5806**



SANTA ANA, CA

For more information call:  
(714) 979-8220

**FEATURES**

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- ULTRA FAST RECOVERY
- PIV TO 150 VOLTS
- JAN S/TX/TXV TYPES AVAILABLE PER MIL-S-19500/477

**MAXIMUM RATINGS**

Operating Temperature: -55°C to +200°C.  
Storage Temperature: -55°C to +200°C.  
Surge: Pulse 8.3ms, 35 A

**ELECTRICAL CHARACTERISTICS**

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	BREAKDOWN VOLTAGE (MIN.) $B_V$ @ 100 $\mu$ A	AVERAGE RECTIFIED CURRENT $I_o$			REVERSE CURRENT (MAX.) $I_R$ @ PIV		SURGE CURRENT (MAX.) (NOTE 1) $I_F$ (surge)	JUNCTION CAPACITANCE (MAX.) C @ -10 V	REVERSE RECOVERY TIME (MAX.) (NOTE 2)
			VOLTS	AMPS	VOLTS		$\mu$ A			
			$T_A = 55^\circ\text{C}$	25°C	100°C	25°C	100°C			
1N5802	50	55	2.5 @	.875 @	.80 @	1.0	1.0	35	20	25
1N5803	75	80	$T_L =$	1.0 Adc	2.5Adc	1.0	50 @	single cycle	typ.	25
1N5804	100	110	75°C	250msec pulse	@ 75°C	1.0	75°C	8.3msec		25
1N5805	125	135	(L = 3/16")			1.0				25
1N5806	150	160				1.0				25

NOTE 1:  $T_A = 55^\circ\text{C}$  @ rated  $I_o$ , 10-8.3 msec surges

NOTE 2:  $I_F = 1.0\text{A}$ ,  $I_R = 1.0\text{A}$ , recover to .1A

**ULTRA FAST  
MILITARY  
RECTIFIERS**

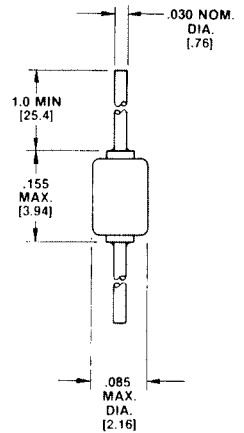


FIGURE 1  
PACKAGE A

**MECHANICAL CHARACTERISTICS**

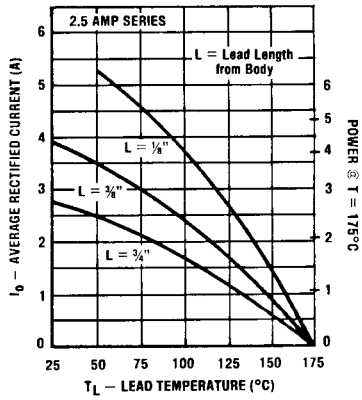
CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper.

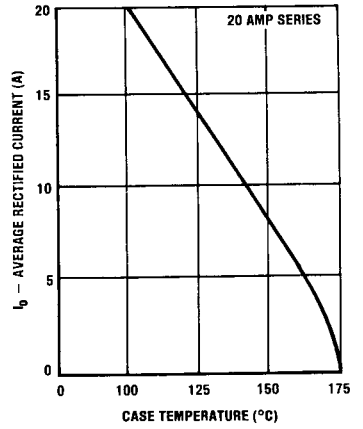
MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

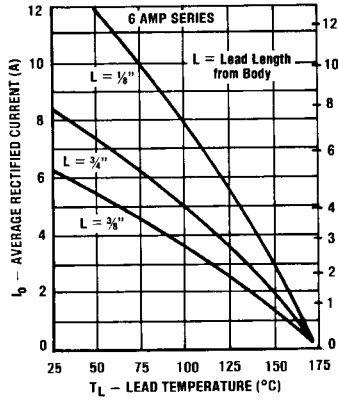
# 1N5802 thru 1N5806



**FIGURE 2**  
OUTPUT CURRENT vs. LEAD TEMP.



**FIGURE 3**  
OUTPUT CURRENT vs. CASE TEMP.



**FIGURE 4**  
OUTPUT CURRENT vs. LEAD TEMP.